

Phone conference on the DAQ-3 system, Feb 28th, 2000.

Attending: Granville Ott, Jo Schambach, Bob Minor, David Lynn

Noticeably Absent: Rene Bellwied, Jerry Hoffman

Attendees agreed it was necessary to have a 3rd Texas DAQ system (DAQ-3) at BNL for the following purposes.

1. As a final step to qualify each ladder. The performance of ladders have differed between Labview and readout/DAQ systems. We should make sure that each ladder runs properly on the real DAQ. Also, at this stage we can make sure ADC ranges are best set running with the real system with the proper voltage drops.
2. We will need to have a backup DAQ system for maintenance of the readout/DAQ system during running of the experiment.
3. It may permit us more careful studies of the performance of the ladders with the real readout/DAQ system.

We decided that it was reasonable to aim for June to acquire all the parts.

A reasonably comprehensive list of all items, mostly provided by Jo, is given below under "**Qty Description**". The main issues are mentioned here. The following two items should be ordered very soon.

9U VME crate	\$5-7k	
Sun Workstation	\$5-6k	Delivery time about 4 weeks.

In the short term it was decided we could simply take the 9u crate from the yr-1 ladder. This solves the vme crate problem for the short term. This results in the short-term inability to run the yr-1 ladder and the daq-3 simultaneously. However, if the third 9u-vme crate might become available sooner, we may want Rene to talk to Levine about speeding the assembly of receiver boards and mezzanines for the SVT.

The following items need investigation. Jo suggested that the MVME167 is an old processor board that we might be able to borrow. Somebody in our collaboration might even have one to spare already. Rene might be the one to inquire.

MVME167	Rene. Borrow
Radstone	Ask ohio state
TCD boards.	Bob to ask Fred Bieser

Space at BNL is also a problem. One possibility may be to use the wafer testing room in Instrumentation.. Wafer testing should be done by then.

The list of most of the times is given below.

Qty	Description	Who	Where/when
1	Cable: LV RDO Panel -> Tr. Board	BNL	Exists
1	HV Cable, HV Mainframe -> RDO Panel	BNL	Exists
1	HV Cable: RDO panel ->TB	BNL	Exists or substitute existing
1	Fiber Optic cable	BNL	Exists
1	Cable: TCD <-> RDO Panel	LBNL	
1	9U DAQ VME crate	Short term. Use Yr-1. Long Term. Order new one immed. Price \$5-7k.	

3	SVT DAQ Receiver Mezzanines	Tonko can provide for cards for one RDO box	
1	DAQ Receiver board		
1	4-conductor power/pulse for Injector Pulse Height cable. LBNL		?
1	cable: Power Supply ->RDO panel	LBNL	?
1	Pulser (differential)/power supply	LBNL	
3	Ethernet connections with transceivers	BNL (dave, check ones on vme processor and slow controls	
1	Sun Workstation w/ peripherals	Order immediately. \$5-6k	
1	4GB disk for event storage	Order immediately with above	
1	Exabyte drive for downloading software	Borrow	
1	6U VME crate	BNL.	Find
1	MVME167 processor	For slow controls. Old type that nobody uses. Rene, ask collab or ohio state. Maybe can borrow.	
1	Radstone HDLC board	Ohio state.	
1	Transition Board with Intercon pigtail	UTA.	Will arrive in time
1	Intercon Cable: RDO panel <-> Tr. Board	BNL	exists
1	MVME2306 processor	Jo maybe has replacement. Will try	
1	Serial cable for MVME2306	Texas	
1	PTBA	Texas. Hope to use 1 st article boards.	
1	PTB with HDLC Mezzanine		
5	AMB		
1	FOB		
1	RDO Panel with interconnect cables		
1	Water cooled RDO box with backplanes	Texas. First article RDO box.	
1	TCD	??Bob to ask Fred Bieser	
1	TCD Mezzanine for SVT		
1	TCD cable driver board		
1	twist'n'flat trigger cable	LBNL	
1	Radstone HDLC cable		
1	flat cable for HDLC		
1	terminator card for HDLC cable		
1	Cable: Power Supplies <-> RDO Panel	LBNL	
1	Power Supplies for RDO (+8V, -8V)	LBNL.	3 months fab time?
Lab space		BNL	where find? one possibility

Water for RDO
Water for E-carriers

BNL
BNL.

is in instrumentation in room
where wafer testing is done.

Need room with water
Will tap water suffice. Pose
question to Bill.